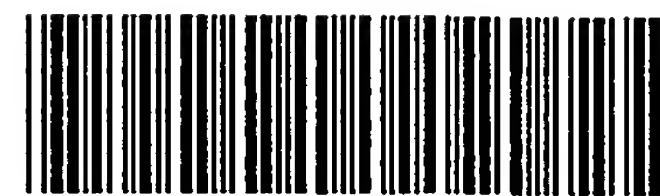


RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/062,257A
Source: IFWO
Date Processed by STIC: 2/17/06

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 02/17/2006

PATENT APPLICATION: US/10/062,257A

TIME: 19:05:09

Input Set : N:\Crf4\02152006\J262257A.raw

Output Set: N:\CRF4\02172006\J062257A.raw

1 <110> APPLICANT: ITOH, Kyogo
 2 <120> TITLE OF INVENTION: Tumor antigen
 3 <130> FILE REFERENCE: 3190-014
 C--> 4 <140> CURRENT APPLICATION NUMBER: US/10/062,257A
 5 <141> CURRENT FILING DATE: 2002-02-01
 6 <150> PRIOR APPLICATION NUMBER: PCT/JP00/05220
 7 <151> PRIOR FILING DATE: 2000-08-03
 8 <150> PRIOR APPLICATION NUMBER: JP HEI11-222101
 9 <151> PRIOR FILING DATE: 1999-08-05
 10 <160> NUMBER OF SEQ ID NOS: 45
 11 <170> SOFTWARE: PatentIn Ver. 2.1
 13 <210> SEQ ID NO: 1
 14 <211> LENGTH: 9
 15 <212> TYPE: PRT
 16 <213> ORGANISM: Homo sapiens
 17 <400> SEQUENCE: 1
 18 Thr Phe Asp Tyr Leu Arg Ser Val Leu
 19 1 5
 21 <210> SEQ ID NO: 2
 22 <211> LENGTH: 10
 23 <212> TYPE: PRT
 24 <213> ORGANISM: Homo sapiens
 25 <400> SEQUENCE: 2
 26 Asp Tyr Leu Arg Ser Val Leu Glu Asp Phe
 27 1 5 10
 29 <210> SEQ ID NO: 3
 30 <211> LENGTH: 9
 31 <212> TYPE: PRT
 32 <213> ORGANISM: Homo sapiens
 33 <400> SEQUENCE: 3
 34 His Tyr Thr Asn Ala Ser Asp Gly Leu
 35 1 5
 37 <210> SEQ ID NO: 4
 38 <211> LENGTH: 9
 39 <212> TYPE: PRT
 40 <213> ORGANISM: Homo sapiens
 41 <400> SEQUENCE: 4
 42 Thr Phe Glu Tyr Leu Gln Ala Phe Leu
 43 1 5
 45 <210> SEQ ID NO: 5
 46 <211> LENGTH: 9
 47 <212> TYPE: PRT
 48 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING

DATE: 02/17/2006

PATENT APPLICATION: US/10/062,257A

TIME: 19:05:09

Input Set : N:\Crf4\02152006\J262257A.raw

Output Set: N:\CRF4\02172006\J062257A.raw

```

49 <400> SEQUENCE: 5
50     Thr Phe Glu Tyr Ile Gln Ser Phe Leu
51         1                     5
53 <210> SEQ ID NO: 6
54 <211> LENGTH: 9
55 <212> TYPE: PRT
56 <213> ORGANISM: Homo sapiens
57 <400> SEQUENCE: 6
58     Thr Phe Glu Tyr Leu Gln Ser Phe Leu
59         1                     5
61 <210> SEQ ID NO: 7
62 <211> LENGTH: 9
63 <212> TYPE: PRT
64 <213> ORGANISM: Homo sapiens
65 <400> SEQUENCE: 7
66     Thr Phe Asp Tyr Leu Gln Ser Val Leu
67         1                     5
69 <210> SEQ ID NO: 8
70 <211> LENGTH: 9
71 <212> TYPE: PRT
72 <213> ORGANISM: Homo sapiens
73 <400> SEQUENCE: 8
74     Thr Phe Glu Tyr Ile Gln Ser Val Leu
75         1                     5
77 <210> SEQ ID NO: 9
78 <211> LENGTH: 9
79 <212> TYPE: PRT
80 <213> ORGANISM: Homo sapiens
81 <400> SEQUENCE: 9
82     Thr Phe Glu Phe Leu Gln Ser Val Leu
83         1                     5
85 <210> SEQ ID NO: 10
86 <211> LENGTH: 13
87 <212> TYPE: PRT
88 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Description of Artificial Sequence:Designed
91     peptide base on amino acid sequence of Src family
92     tyrosine kinases, which peptide has an ability to
93     generate HLA-A24 restricted cytotoxic T lymphocytes
94 <220> FEATURE:
95 <221> NAME/KEY: UNSURE
96 <222> LOCATION: (3)
97 <223> OTHER INFORMATION: Xaa can be Asp or Glu.
98 <220> FEATURE:
99 <221> NAME/KEY: UNSURE
100 <222> LOCATION: (4)
101 <223> OTHER INFORMATION: Xaa can be Tyr or Phe.
102 <220> FEATURE:

```

RAW SEQUENCE LISTING

DATE: 02/17/2006

PATENT APPLICATION: US/10/062,257A

TIME: 19:05:09

Input Set : N:\Crf4\02152006\J262257A.raw

Output Set: N:\CRF4\02172006\J062257A.raw

```

103 <221> NAME/KEY: UNSURE
104 <222> LOCATION: (5)
105 <223> OTHER INFORMATION: Xaa can be Leu or Ile.
106 <220> FEATURE:
107 <221> NAME/KEY: UNSURE
108 <222> LOCATION: (6)
109 <223> OTHER INFORMATION: Xaa can be Arg or Gln.
110 <220> FEATURE:
111 <221> NAME/KEY: UNSURE
112 <222> LOCATION: (7)
113 <223> OTHER INFORMATION: Xaa can be Ser or Ala.
114 <220> FEATURE:
115 <221> NAME/KEY: UNSURE
116 <222> LOCATION: (8)
117 <223> OTHER INFORMATION: Xaa can be Val or Phe.
118 <220> FEATURE:
119 <221> NAME/KEY: UNSURE
120 <222> LOCATION: (10)
121 <223> OTHER INFORMATION: Xaa can be Glu or Asp.
122 <220> FEATURE:
123 <221> NAME/KEY: UNSURE
124 <222> LOCATION: (12)
125 <223> OTHER INFORMATION: Xaa can be Phe or Tyr.
126 <220> FEATURE:
127 <221> NAME/KEY: UNSURE
128 <222> LOCATION: (13)
129 <223> OTHER INFORMATION: Xaa can be Phe or Tyr.
130 <400> SEQUENCE: 10
W--> 131      Thr Phe Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa Asp Xaa Xaa
      132          1              5              10
134 <210> SEQ ID NO: 11
135 <211> LENGTH: 9
136 <212> TYPE: PRT
137 <213> ORGANISM: Homo sapiens
138 <400> SEQUENCE: 11
139      Leu Gln Asp Asn Leu Val Ile Ala Leu
140          1              5
142 <210> SEQ ID NO: 12
143 <211> LENGTH: 9
144 <212> TYPE: PRT
145 <213> ORGANISM: Homo sapiens
146 <400> SEQUENCE: 12
147      Lys Leu Val Glu Arg Leu Gly Ala Ala
148          1              5
150 <210> SEQ ID NO: 13
151 <211> LENGTH: 10
152 <212> TYPE: PRT
153 <213> ORGANISM: Homo sapiens
154 <400> SEQUENCE: 13

```

RAW SEQUENCE LISTING

DATE: 02/17/2006

PATENT APPLICATION: US/10/062,257A

TIME: 19:05:09

Input Set : N:\Crf4\02152006\J262257A.raw

Output Set: N:\CRF4\02172006\J062257A.raw

```

155      Gln Leu Gln His Gln Arg Leu Val Arg Leu
156      1                      5                      10
158 <210> SEQ ID NO: 14
159 <211> LENGTH: 9
160 <212> TYPE: PRT
161 <213> ORGANISM: Homo sapiens
162 <400> SEQUENCE: 14
163      Lys Leu Leu Asp Met Ala Ala Gln Ile
164      1                      5
166 <210> SEQ ID NO: 15
167 <211> LENGTH: 9
168 <212> TYPE: PRT
169 <213> ORGANISM: Homo sapiens
170 <400> SEQUENCE: 15
171      Gln Ile Ala Glu Gly Met Ala Phe Ile
172      1                      5
174 <210> SEQ ID NO: 16
175 <211> LENGTH: 9
176 <212> TYPE: PRT
177 <213> ORGANISM: Homo sapiens
178 <400> SEQUENCE: 16
179      Asp Val Trp Ser Phe Gly Ile Leu Leu
180      1                      5
182 <210> SEQ ID NO: 17
183 <211> LENGTH: 9
184 <212> TYPE: PRT
185 <213> ORGANISM: Homo sapiens
186 <400> SEQUENCE: 17
187      Ser Val Leu Glu Asp Phe Phe Thr Ala
188      1                      5
190 <210> SEQ ID NO: 18
191 <211> LENGTH: 10
192 <212> TYPE: PRT
193 <213> ORGANISM: Homo sapiens
194 <400> SEQUENCE: 18
195      Asp Tyr Leu Arg Ser Val Leu Asp Asp Phe
196      1                      5                      10
198 <210> SEQ ID NO: 19
199 <211> LENGTH: 10
200 <212> TYPE: PRT
201 <213> ORGANISM: Homo sapiens
202 <400> SEQUENCE: 19
203      Arg Asn Gly Ser Glu Tyr Arg Asp Pro Leu
204      1                      5                      10
206 <210> SEQ ID NO: 20
207 <211> LENGTH: 10
208 <212> TYPE: PRT
209 <213> ORGANISM: Homo sapiens
210 <400> SEQUENCE: 20

```

RAW SEQUENCE LISTING

DATE: 02/17/2006

PATENT APPLICATION: US/10/062,257A

TIME: 19:05:09

Input Set : N:\Crf4\02152006\J262257A.raw

Output Set: N:\CRF4\02172006\J062257A.raw

211 Ser Tyr Glu Pro Ser His Asp Gly Asp Leu
 212 1 5 10

214 <210> SEQ ID NO: 21

215 <211> LENGTH: 9

216 <212> TYPE: PRT

217 <213> ORGANISM: Homo sapiens

218 <400> SEQUENCE: 21

219 Asn Phe Val Ala Lys Ala Asn Ser Leu

220 1 5

222 <210> SEQ ID NO: 22

223 <211> LENGTH: 9

224 <212> TYPE: PRT

225 <213> ORGANISM: Homo sapiens

226 <400> SEQUENCE: 22

227 Ser Phe Ser Leu Ser Val Arg Asp Phe

228 1 5

230 <210> SEQ ID NO: 23

231 <211> LENGTH: 9

232 <212> TYPE: PRT

233 <213> ORGANISM: Homo sapiens

234 <400> SEQUENCE: 23

235 Phe Tyr Ile Ser Pro Arg Ile Thr Phe

236 1 5

238 <210> SEQ ID NO: 24

239 <211> LENGTH: 10

240 <212> TYPE: PRT

241 <213> ORGANISM: Homo sapiens

242 <400> SEQUENCE: 24

243 Leu Tyr Ala Val Val Thr Gln Glu Pro Ile

244 1 5 10

246 <210> SEQ ID NO: 25

247 <211> LENGTH: 9

248 <212> TYPE: PRT

249 <213> ORGANISM: Homo sapiens

250 <400> SEQUENCE: 25

251 Glu Tyr Met Glu Asn Gly Ser Leu Val

252 1 5

254 <210> SEQ ID NO: 26

255 <211> LENGTH: 9

256 <212> TYPE: PRT

257 <213> ORGANISM: Homo sapiens

258 <400> SEQUENCE: 26

259 Ala Phe Ile Glu Glu Arg Asn Tyr Ile

260 1 5

262 <210> SEQ ID NO: 27

263 <211> LENGTH: 10

264 <212> TYPE: PRT

265 <213> ORGANISM: Homo sapiens

266 <400> SEQUENCE: 27

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/062,257A

DATE: 02/17/2006
TIME: 19:05:10

Input Set : N:\Crf4\02152006\J262257A.raw
Output Set: N:\CRF4\02172006\J062257A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:10; Xaa Pos. ~~3,4,5,6,7,8,10,12,13~~

VERIFICATION SUMMARY

DATE: 02/17/2006

PATENT APPLICATION: US/10/062,257A

TIME: 19:05:10

Input Set : N:\Crf4\02152006\J262257A.raw

Output Set: N:\CRF4\02172006\J062257A.raw

L:4 M:270 C: Current Application Number differs, Replaced Current Application Number

L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0